



Name _____ Date _____

2-8 Study Guide

Dividing Integers

If two integers have the same sign, their quotient is positive.

Examples	$m = 420 \div 7$	<i>The signs are the same.</i>
	$m = 60$	<i>The quotient is positive.</i>
	$d = 290 \div 29$	<i>The signs are the same.</i>
	$d = 10$	<i>The quotient is positive.</i>

If two integers have different signs, their quotient is negative.

Examples	$f = -25 \div 5$	<i>The signs are different.</i>
	$f = -5$	<i>The quotient is negative.</i>
	$a = \frac{20}{-4}$	<i>The signs are different.</i>
	$a = -5$	<i>The quotient is negative.</i>

Solve each equation.

1. $81 \div -9 = c$

2. $r = \frac{-72}{8}$

3. $b = 680 \div 4$

4. $-325 \div (-5) = p$

5. $-700 \div 35 = y$

6. $t = -560 \div (-80)$

7. $k = \frac{285}{19}$

8. $-96 \div (-32) = g$

9. $840 \div (-7) = z$

10. $-189 \div 9 = j$

11. $m = 248 \div (-4)$

12. $z = 408 \div 51$

Evaluate each expression if $q = -48$, $r = 6$, and $t = -12$.

13. $-108 \div t$

14. $\frac{q}{-8}$

15. $312 \div r$

16. $\frac{q}{r}$

17. $6r \div t$

18. $-144 \div t$



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Practice

Dividing Integers

Solve each equation.

1. $\frac{-27}{9} = b$

2. $v = \frac{42}{-7}$

3. $n = \frac{-63}{-9}$

4. $t = -42 \div 14$

5. $-12 \div (-4) = z$

6. $16 \div (-8) = p$

7. $m = 120 \div (-20)$

8. $n = -240 \div (-4)$

9. $p = -64 \div (-8)$

10. $a = \frac{-366}{3}$

11. $b = \frac{-144}{-6}$

12. $c = \frac{-80}{16}$

13. $\frac{-121}{-11} = w$

14. $\frac{-240}{8} = x$

15. $\frac{440}{-20} = y$

16. $315 \div 9 = p$

17. $-312 \div (-12) = q$

18. $285 \div (-15) = r$

19. $d = -312 \div (-6)$

20. $e = 232 \div (-8)$

21. $f = -144 \div (-9)$

22. $h = \frac{516}{12}$

23. $j = \frac{-430}{10}$

24. $g = \frac{-344}{-8}$

25. $q = \frac{-630}{42}$

26. $-360 \div 8 = r$

27. $\frac{-4,096}{-64} = s$

Evaluate each expression if $c = -3$, $r = 9$, and $t = -10$.

28. $\frac{200}{t}$

29. $\frac{162}{r}$

30. $\frac{63}{c}$

31. $cr \div 3$

32. $tr \div c$

33. $(crt)^2 \div 6$